



PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 10

Complete if Known

Application Number	10/820,963
Filing Date	April 7, 2004
First Named Inventor	Li
Art Unit	2881 2C1P
Examiner Name	not yet assigned
Attorney Docket Number	012.P3004

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
Bj	1	US- 4,635,063	01/06/1987	Chang et al.	
	2	US- 5,028,931	07/02/1991	Ward	
	3	US- 5,315,532	05/24/1994	Comon	
	4	US- 5,383,164	01/17/1995	Sejnowski et al.	
	5	US- 5,596,333	01/21/1997	Bruckert	
	6	US- 5,949,833	09/07/1999	Weerackody	
	7	US- 5,959,966	09/28/1999	Torkkola	
	8	US- 5,982,327	11/09/1999	Vook et al.	
	9	US- 6,018,317	01/25/2000	Dogan et al.	
	10	US- 6,128,276	10/03/2000	Agee	
	11	US- 6,160,839	12/12/2000	Zhang	
	12	US- 6,188,913	02/13/2001	Fukagawa et al.	
	13	US- 6,201,955	03/13/2001	Jasper et al.	
	14	US- 6,236,862	05/22/2001	Erten et al.	
	15	US- 6,298,082	10/02/2001	Harrison	
	16	US- 6,314,305	11/06/2001	Solondz et al.	
	17	US- 6,314,394	11/06/2001	Finn	
	18	US- 6,321,200	11/20/2001	Casey	
	19	US- 6,370,129	04/09/2002	Huang	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ⁴ -Number ⁴ -Kind Code ⁵ (if known)				
Bj Pa M Bj M Bj	20	EP 1 152 548	07.11.2001	Lucent Technologies		
	21	WO 94/29967	22.12.1994	The Salk Institute		
	22	WO 98/37638	27.08.1998	AT&T Wireless		
	23	WO 98/37654	27.08.1998	AT&T Wireless		
	24	WO 98/58450	23/12/1998	Clarity, LLC		
	25	WO 98/59450	30/12/1998	Motorola, Inc.		

Examiner
SignatureDate
Considered

06/16/07

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Application Number	10/821,143 10/820,967
Filing Date	April 7, 2004
First Named Inventor	Li
Art Unit	2631 2618
Examiner Name	not yet assigned
Attorney Docket Number	012-P300T

7/02

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		Filing Date	April 7, 2004
		First Named Inventor	Li
		Art Unit	2631 2618
		Examiner Name	not yet assigned
Sheet 3 of 5	Attorney Docket Number	012-P3004-	

By 7/07

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
Bm	39	TEW-AP100 11 Mbps Wireless Access Point Product Description; www.trendward.com/products/TEW-AP100.htm; 10/29/01; 4 pages.	
hm	40	Compaq WL400 11 Mbps Wireless LAN Hardware Access Point Product Description; www.compaq.com/products/wireless/wlan/wl400-specifications.html; 10/29/01; 2 pgs.	
hm	41	Wireless Protocols: ewd's Valhalla Series Wireless Processors; www.ewdi.com/dp.dpml?dplevel=2; 10/29/01; 2 pages.	
iz	42	DIMITRIADIS et al.; "Enhanced Cellular Network Performance with Adaptive Coverage Based on Position Location of Mobile Terminals"; white paper; 4 pgs.	
m2	43	GESBERT et al.; "Technologies and Performance for Non-Line-of-Sight Broadband Wireless Access Networks"; IEEE Communications Magazine; April 2002; pgs. 86-95.	
m2	44	POON et al.; "Multiple-Antenna Channels From A Combined Physical and Networking Perspective"; white paper; 5 pages.	
m2	45	BANA et al.; "Space Division Multiple Access (SDMA) for Robust ad hoc Vehicle Communication Networks"; The IEEE 4th Int'l. Conference on Intelligent Transportation Systems; white paper; 6 pages.	
pk	46	PAULRAJ et al.; "Smart Antennas for Mobile Communications"; Encyclopedia for Electrical Engineering; John Wiley Pub.Co.; 2000; 15 pgs.	
pa	47	OLSON, STEVEN C.; "Antenna Technologies for Wireless Solutions"; white paper/presentation; 9/10/98; 35 pages.	
b	48	"A Guide to IEEE 802.11b Wireless Networking Technology"; SMART Modular Technologies, Inc. 2001; 32 pages.	

Examiner Signature	<i>B. L. Li</i>	Date Considered	06/10/07
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Sheet <u>4</u> of <u>5</u>	Attorney Docket Number	012.P3004	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>RL</i>	49	SARRIGEORGIDIS et al., "Massively Parallel Wireless Reconfigurable Processor Architecture and Programming", white paper, 8 pages.	
<i>RL</i>	50	MAEDA et al., "Blind Signal Separation Via Simultaneous Perturbation Method", white paper, 4 pages.	
<i>RL</i>	51	RABAEY, Jan M., "Silicon Architectures for Wireless Systems-Part 1", Berkeley Wireless Research Center white paper, 52 pages.	
<i>RL</i>	52	RABAEY, Jan M., "Silicon Architectures for Wireless Systems-Part 2 Configurable Processors", Berkeley Wireless Research Center white paper, 66 pages.	
<i>RL</i>	53	RABAEY, Jan M.; "Wireless Beyond the Third Generation-Facing the Energy Challenge"; Berkeley Wireless Research Center; ISLPED 2001, Huntington Beach; 38 pages.	
<i>RL</i>	54	Micronet SP900 Series RadioLink Wireless LAN Product Information Sheet; March 2001; 4 pages.	
<i>RL</i>	55	DEVLIN, MALACHY Ph.D.; "How to Make Smart Antenna Arrays"; Xcell Journal; Spring 2003, 4 pages.	
<i>RL</i>	56	"Smart Antenna Technology and Applications" Symposium Presentation, 40 pages.	
<i>RL</i>	57	ELLINGSON et al., "Open Loop Forward Link Beamforming with Diversity Switching", IEEE Transactions on Vehicular Technology, April 30, 2001, 22 pages.	
<i>RL</i>	58	TEHRANI, ARDAVAN MALEKI, "Space-Time Coding Over a Code Division Multiple Access System", IEEE 1999, pgs. 134-138.	

Examiner Signature	<i>[Signature]</i>	Date Considered	06/10/07
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Filing Date April 7, 2004

First Named Inventor Li

Art Unit 2601 2618

Examiner Name not yet assigned

Attorney Docket Number 012.P3004

Sheet 5 of 5

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
B	59	POON et al., "An Adaptive Multi-Antenna Transceiver for Slowly Flat Fading Channels", white paper, 3/13/02, 20 pages.	
H	60	LACKPOUR, et al., "Architecture and Predicted Performance of an IEEE 802.11b-like WMAN Transceiver at 5.8GHz", white paper, 7 pages.	
M	61	LIU, et al., "A System-Theoretic Foundation For Blind Signal Separation of MIMO-FIR Convolutional Mixtures - A Review", white paper, 7 pages.	
M	62	KELLY, RYAN, "A Space Division Multiple Access System - An Analysis and Prototype Proposal, ENEL 698 Final Project Report, 12/17/97, 66 pgs.	

Examiner Signature	Date Considered
<i>[Signature]</i>	06/10/07

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